



EOC Facilities

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EOC Facilities

EOS Operations Center (EOC)

- **Located in the EOSDIS Facility (Building 32) at NASA GSFC**
- **Host All Flight Operations Team (FOT) Functions**
 - **Scheduling, Real Time Operation, Post Contact Analysis, and Launch Support**
- **Infrastructure To Be In Place to Fulfill FOS Test Requirements**
 - **External Interface Testing Starting Summer '96**
 - **AM-1 Spacecraft Testing starting 11/96**
- **FOT Staff Will Start Occupying Building 32 Spring '96**
- **Capability to Perform Planning & Scheduling and Off-Line Analysis functions in the Office Area**

EOC Facilities

EOC Consists of the Following Facilities

- **Mission Operations Area (MOA)**
 - Real-Time Support for AM-1 and Future Missions
- **Launch Support Room (LSR)**
 - Spacecraft Manufacturer and System Testing
- **Equipment Room (ER)**
 - Data Storage Units, and Servers
- **Simulator & Sustaining Engineering Room (SSER)**
 - Spacecraft Simulator, ETS, and ECS Sustaining Engineering
- **Mission Analysis Room (MAR)**
 - Off-Line (Spacecraft Engineering and Scheduling) Support
- **Mission Support Room (MSR)**
 - Mission Planning, Training, and Conference Area

EOC Design Factors

- **EOC Design Factors Have Included:**
 - **Lessons Learned from Past Control Center Experience**
 - Landsat 4/5/6
 - EUVE/EP
 - OAO
 - SMM
 - GOES
 - **GSFC Code 513 Control Center Designers / Human Factors Knowledge**
 - **Work with potential vendors**

Building 32 Second Floor

Available in hard copy only.

EOC Facilities

Rendering of EOC Raised Floor Area at Release “B”

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Mission Operations Area

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Mission Operations Area Console Layout

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Mission Operations Area Equipment

- **ECS Provided**
 - **EOC Userstations (6) [4 with 2 monitors attached]**
 - **Laser Printer (1)**
 - **Color Printer (1)**
- **GFE**
 - **Personal computer (1)**
 - **GMT/countdown clocks (1)**
 - **CCTV monitor (1)**
 - **Communications Panel (Commercial Phones, SCAMAs, CCLs) (4)**
 - **Projection System (1)**

Launch Support Room

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Launch Support Room Equipment

- **EOC Provided**
 - **EOC Userstations (12)**
 - **Laser Printer (1)**
 - **Color Printer (1)**
 - **Line Printer (2)**
- **GFE**
 - **Personal Computers (2)**
 - **Communications Panel (Commercial Phones, SCAMAs, CCLs) (8)**
 - **CCTV monitor (1)**
 - **GMT/countdown clocks (1)**

Equipment Room

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Equipment Room Equipment

- **ECS Provided**
 - Real-time server (3), Data server (3), Multicast Server (1)
 - Data Storage Units (RAID) (2)
 - LSM Workstations (2)
 - Server Operator Console (2)
 - Timing Gateway (1)
 - ECS Router (1)
 - Laser Printer (1)
 - Line Printer (1)
- **GFE**
 - ETS LRS (1) & ETS MPS (1)
 - AM-1 SSIM (1)
 - GMT/countdown clocks (1)
 - Communications Panel (Commercial Phone, SCAMAs, CCLs) (1)

Simulator & Sustaining Engineering Room

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Simulator & Sustaining Engineering Room Equipment

- **EOC Provided**
 - **EOC Userstations (9)**
 - **SSIM Workstation (1)**
 - **ETS LRS Workstation (1) & ETS MPS Workstation (1)**
 - **Laser Printer (1)**
 - **Color Printer (1)**
 - **Line Printer (1)**
- **GFE**
 - **GMT/countdown clocks (1)**
 - **Personal computer (1)**
 - **Communications Panel (Commercial Phone, SCAMAs, CCLs) (5)**
 - **CCTV monitor (1)**

Mission Analysis Room

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Mission Analysis Room Equipment

- **ECS Provided**
 - **EOC Userstation (4)**
 - **Laser Printer (1)**
 - **Color printer (1)**
 - **Line Printer (1)**
- **GFE**
 - **Personal computer (2)**
 - **SAS Workstation (1)**
 - **FDF Workstations (2)**
 - **GMT/countdown clocks (1)**
 - **Communications Panel (Commercial Phones, SCAMAs, CCLs) (3)**

Mission Support Room

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Mission Support Room Equipment

- **ECS Provided**
 - EOC Userstation (1)
 - Laser Printer (1)
- **GFE**
 - GMT/countdown clock (1)
 - Conference Table (1)
 - Communications Panel (Commercial Phones, SCAMAs, CCLs) (1)
 - Personal computers (1)
 - Commercial Phone (1)
 - Teleconference equipment (1)
 - CCTV monitor (1)
 - Projection System (1)
 - Viewgraph machine (1)